Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

- (Original) A method of producing a carbon nanotube, comprising: preparing a carbon nanotube by introducing a catalyst substance into a carbon structure; making the catalyst substance move in the carbon structure; and crystallizing the trail region.
- 2. (Original) The method of producing a carbon nanotube according to claim 1, wherein said crystallizing said carbon structure is performed after said carbon structure is fixed on a predetermined position of said substrate.
- 3. (Previously presented) The method of producing a carbon nanotube according to claim 1, wherein said carbon structure is heated when said catalyst substance is moved in said carbon structure.
- (Original) The method of producing a carbon nanotube according to claim 3, wherein at least a part of said catalyst substance is liquefied by heating said carbon structure.
- 5. (Previously presented) The method of producing a carbon nanotube according to claim 1, wherein said carbon structure is formed by a vapor-phase deposition method of using a charged particle beam as excitation source.
- 6. (Previously presented) The method of producing a carbon nanotube according to claim 1, wherein said carbon structure is prepared by a vapor-phase deposition method of using an aromatic hydrocarbon compound as precursor material.
- 7. (Previously presented) The method of producing a carbon nanotube according to claim 1, wherein said carbon structure is a resist pattern.
- 8. (Previously presented) The method of producing a carbon nanotube according

to claim 1, wherein said carbon structure is a linear structure and said catalyst substance is moved along said carbon structure.

- 9. (Previously presented) The method of producing a carbon nanotube according to claim 8, wherein said catalyst substance is a catalyst particle and the diameter of said catalyst particle is 0.5 to 3 times as large as the diameter of said linear structure.
- 10. (Original) A method of producing a carbon nanotube, comprising: preparing a substrate; forming a carbon structure at a position separated from the surface of the substrate; preparing a carbon nanotube by making the catalyst substance move in the carbon structure; and crystallizing the trail region.
- 11. (Original) The method of producing a carbon nanotube according to claim 10, wherein said carbon structure is heated when said catalyst substance is moved in the carbon structure.
- 12. (Original) The method of producing a carbon nanotube according to claim 11, wherein at least part of said catalyst substance is liquefied by heating said carbon structure.
- 13. (Previously presented) The method of producing a carbon nanotube according to claim 10, wherein said carbon structure is formed by a vapor-phase deposition method of using a charged particle beam as excitation source.
- 14. (Previously presented) The method of producing a carbon nanotube according to claim 10, wherein said carbon structure is prepared by a vapor-phase deposition method of using an aromatic hydrocarbon compound as precursor material.
- 15. (Previously presented) The method of producing a carbon nanotube according to claim 10, wherein said carbon structure is a resist pattern.
- 16. (Previously presented) A method of producing a transistor, comprising

forming a source electrode and a drain electrode on both ends of the carbon nanotube structure, respectively, and additionally a gate electrode after forming a carbon nanotube structure by the method according to claim 1.

- 17. (Previously presented) A method of producing a wiring structure of carbon nanotube, comprising forming a carbon nanotube structure by the method according to claim 1.
- 18. (Currently amended) A nanotube structure <u>product produced by the process of claim 1, said nanotube structure product</u> comprising a substrate and a carbon nanotube placed above said substrate, wherein the entire of said carbon nanotube is separated from said substrate.
- 19. (Currently amended) A carbon nanotube structure <u>product produced by the process of claim 1</u>, <u>said nanotube structure product</u> comprising: a substrate; a first carbon dot and a second carbon dot formed on said substrate; and a carbon nanotube connecting the gap between said first and second carbon dots.
- 20. (Currently amended) The carbon nanotube structure <u>product</u> according to claim 19, wherein said first or second carbon dot contains an aromatic hydrocarbon.
- 21 (Currently amended). The carbon nanotube structure <u>product</u> according to claim 19, wherein said carbon nanotube is formed so that it is separated from said substrate.
- 22. (Currently amended) A transistor <u>produced according to the process of claim</u>
 1, comprising a <u>substrate and a carbon nanotube placed above said substrate</u>,
 wherein the entire of said carbon nanotube is <u>separated from said substrate</u> the
 carbon nanotube structure according to claim 18.
- 23. (Currently amended) A wiring structure <u>produced according to the process of claim 1</u>, comprising a <u>substrate and a carbon nanotube placed above said substrate</u>,

wherein the entire of said carbon nanotube is separated from said substrate the carbon nanotube structure according to claim 18.